

## A B S T R A C T

## A SYSTEM FOR ASSISTING THE REGENERATION OF A PARTICLE FILTER OF A DIESEL ENGINE EXHAUST LINE

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A system for assisting regeneration of a particle filter in an exhaust line (3) of a motor vehicle diesel engine (1) associated with:

- air admission means (2);
  - 10 - exhaust gas recycling means (4);
  - a turbocompressor (5);
  - a particle filter (7);
  - a common system (8) for feeding fuel to the engine;
  - 15 - means (16) for adding to the fuel an additive adapted to be deposited on the particle filter (7) to reduce the combustion temperature of particles trapped therein;
  - means (20, 21, 22) for acquiring information relating to operation of the engine; and
  - monitoring means (17) adapted to trigger a phase of regeneration of the particle filter by combustion of the particles trapped therein by triggering a phase of multiple injection of fuel.
- 25 The filter (7) is impregnated with a catalyst for oxidizing hydrocarbons and CO present in the exhaust gases.

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Translation of the title and the abstract as they were when originally filed by the  
35 Applicant. No account has been taken of any changes that may have been made subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2, 38.2, and/or 48.3.